## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP:	2005/002588
	CATION OF SUBJECT MATTER  7 F16C19/18, C10M129/40, 129/4 137/02, 169/04, F16C33/66,		
According to In	iternational Patent Classification (IPC) or to both natio	nal classification and IPC	
B. FIELDS SI			
Minimum docu Int . Cl	mentation searched (classification system followed by F16C19/00-19/56, F16C33/30-3 //C10N20:02, 30:12, 40:02		, F16H57/02
Jitsuyo		tent that such documents are included in th itsuyo Shinan Toroku Koho oroku Jitsuyo Shinan Koho	e fields searched 1996-2005 1994-2005
Electronic data	base consulted during the international search (name of	data base and, where practicable, search to	erms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-314541 A (Koyo Seiko 06 November, 2003 (06.11.03) Par. Nos. [0001], [0011] to Figs. 1 to 5 & WO 2003/089798 A1	,	1-12
Y	Eiichi WATABAYASHI, Shigeru ONO, Yoshiaki MATSUMOTO, Jun'ichi OKADA, "JIS Tsukaikata Series Korogari Jikuuke no Erabikata, Tsukaikata", Ol December, 1976 (01.12.76), pages 212 to 213		1-12
Y	The Toyo Bearing Mfg. Co., London Catalog No. 600, 1960, page line 1 to page 91, right column	89, left column,	1-12
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 11 May, 2005 (11.05.05)		Date of mailing of the international search report 31 May, 2005 (31.05.05)	
	g address of the ISAV e Patent Office	Authorized officer	

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International application No.
PCT/JP2005/002588

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
<b>Y</b>	JP 2003-176832 A (NSK Ltd.), 27 June, 2003 (27.06.03), Par. Nos. [0002] to [0006] (Family: none)	1-12
A	JP 2004-43718 A (NSK Ltd.), 12 February, 2004 (12.02.04), Claims 1, 9; Par. No. [0036] (Family: none)	1-12
<b>A</b> (	JP 11-201172 A (NTN Corp.), 27 July, 1999 (27.07.99), Claims 1, 5; Par. Nos. [0015] to [0018]; Figs. 8 to 10	1-12
	& US 6086261 A & DE 19900858 A1	
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